

Comparisons of Job Characteristics

Focus Occupation: [Water and Wastewater Treatment Plant and System Operators \(51-8031\)](#)
Associated Occupation: [Electrical and Electronics Repairers, Powerhouse, Substation, and Relay \(49-2095\)](#)

[Compare Knowledge](#)
[Compare Skills](#)
[Compare Abilities](#)
[Compare Detailed Work Activities](#)
[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)
Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	17.1	14.8	<	Expanded education and/or training may be required
Design	5.2	13.2	9.8	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	12.7	0	Current knowledge level may be sufficient
Computers and Electronics	8.4	12.2	10.2	<	Expanded education and/or training may be required
Physics	4.3	10.1	13.2	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	10.0	4.3	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	9.3	11.1	>	Current knowledge level is likely sufficient
Building and Construction	4.0	8.4	10.0	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)
Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	11.4	9.3	<	A higher skill level may be required
Repairing	3.4	11.1	9.0	<	A higher skill level may be required
Troubleshooting	4.5	10.7	9.3	<	A higher skill level may be required
Quality Control Analysis	5.9	10.2	10.3	0	Current skill level may be sufficient

Operation Monitoring	6.6	10.0	11.9	>	Skill level is likely sufficient
Equipment Selection	3.3	5.6	7.4	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	10.3	8.7	<	Some improvement in abilities may be required
Visualization	7.5	10.1	7.5	<<	Extensive improvement in abilities may be required
Control Precision	6.6	10.0	9.0	<	Some improvement in abilities may be required
Selective Attention	8.7	10.0	8.7	<	Some improvement in abilities may be required
Finger Dexterity	7.6	9.8	7.7	<	Some improvement in abilities may be required
Manual Dexterity	6.5	9.4	8.3	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	9.3	7.7	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 65
Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031) Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)		
Work Activities	Exclusivity of Activity	
Clean equipment or machinery	20	
Maintain or repair industrial or related equipment/machinery	39	
Test materials or solutions	73	
Use hand or power tools	2	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation: Electrical and Electronics Repairers, Powerhouse, Substation, and Relay (49-2095)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.